

SOME NEW SPECIES OF BACCHA AND MESOGRAMMA

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In this paper I present the description of three new Syrphid flies from South America. Types, unless otherwise stated are in the collection of the author.

***Baccha brunnipennis* n. sp.**

Related to *B. lepida* Macquart but the wings much darker, the hind femora and tibia wholly dark brown besides abdominal pattern differences.

MALE.—Length 8 mm. **Head:** vertex blackish-brown; the front is broadly, dully, brownish-black; the sides of the front continuously light orange-brown. The face is pale yellowish-brown, the middle of the face is deeper yellow, the facial pile is brown with some pale hairs intermixed; the cheeks very small and yellow. The first and second joints of the antennae are light brown; the third joint is light reddish-brown with the dorsal margin and arista quite dark brown. **Thorax:** mesonotum shining dark brown with a metallic, slightly brassy luster and two brown pollinose vittae, one on either side, and an additional pair on the lateral margin, and a very slender, similar, linear streak down the middle. The dorsal pile of the mesonotum is brownish black. Pleurae metallic black with a bluish cast, the black not enclosing the posterior spiracle; almost the whole of the mesopleurae, upper part of sternopleurae and anterior part of pteropleurae, light, translucent brownish-yellow. The scutellum is brownish-yellow with only a very few dark hairs and with the ventral fringe apparently non-existent. **Abdomen:** spatulate, but a little wider at apex than at base and marked with brownish-yellow as follows: just past the middle is a slightly diagonal, sublateral fascia connected in the midline though there is trace of an interruption; and upon the third segment a thin, basal, submedial, posteriorly rounded fascia that ends some distance before the lateral margin and in the middle large triangles well separated, not quite reaching the sides, whose right-angular angle is posteromedially placed. On the third segment there are well separated large yellowish V's, one on either side and inverted, the ends rounded and the anteriorly directed apex narrowly confluent with the submedial, basal, yellow spots which are somewhat similar to those of the proceeding segment but are a little larger. The arms of the V-shaped figure are broad and thick. Last segment with four vittae, the median pair somewhat longer, none of them reaching the posterior or lateral margins and the pair on each lateral half is confluent along the basal margin of the segment. **Legs:** first pair of legs almost wholly light brownish-yellow, the coxae palest, the base of their femora slightly smoky, their pile chiefly pale but some of its femoral pile dark. Middle pair of legs somewhat similar to the first pair, their femora darker and more extensively brown, the apex still pale and the posterior surface with a prominent fringe of long brown pile. The hind femora and their tibiae are very dark brown with brownish-black pile. Only the apex of the former is lighter brown. The hind tarsi, which are quite elongate and brownish-orange, are slightly darker towards the base of the basi tarsi, their pile brown. **Wings:** wholly dark sepia throughout, moderately broad, the allula narrow and strap-shaped.

Holotype: one male, Sao Paulo, April 6, 1939, J. Lane, collector; one paratype, same locality, in the collection of Mr. John Lane.

***Baccha beatricea* n. sp.**

Related to *B. clarapex* Wied. but with apical black wing spot.

FEMALE. Length 12 mm. **Head:** sides of face and narrow margin of front yellow. The facial tubercle, median stripe, vertex, and front except for a yellowish pre-antennal spot in the middle of which is a black spot, are all black. Antennae black, the base of third joint below

brownish. *Thorax*: metallic, brassy, brownish-black, the humeri and notopleurae are somewhat lighter brown and in the middle of the mesonotum, there are a pair of widely separated obscure pollinose vittae. Scutellum light brown, white pubescent, very short, sparse, black pilose, the ventral fringe is yellowish. *Abdomen*: slightly longer than wings, quite spatulate and chiefly dark brownish-black with pale pattern as follows: the anterior corners of third-fourth and fifth segments and also, narrowly separated, diffuse, elongate, rather small, vittate, paired spots in the middle of each of these segments. Those of the fifth segment are connected by way of the basal margin with the anterior corners. Sixth segment not quite as long as wide. Legs chiefly blackish, the anterior pair lighter, basal half of first and second tibiae whitish. Apical third of hind metatarsi and remaining joints whitish. *Wings*: broadly black on the anterior half of the basal third, widely and completely across the middle, and the whole of the subcostal cell and a conspicuous apical spot blackish.

Holotype: one female. Dec., 1940, J. Lane, collector.

***Mesogramma lanei* n. sp.**

Related to *M. planiventris* Lw. but with narrower abdomen, pattern differences, femoral annulae and other differences.

FEMALE. Length 4 mm. *Head*: face yellow, the tubercle brown tipped, vertex and the front broadly metallic black, its sides narrowly yellow. Antennae orange, brownish above. *Thorax*: mesonotum conspicuously brassy brown pollinose with a median steel blue vittae, the lateral margin widely tinged with yellow, the propleurae, humeri pale yellow, the scutellum brownish yellow with long sparse black pile. *Abdomen*: oval, yellowish brown marked with black as follows: posterior half of first segment, a narrow basal fascia and a slightly wider posterior fascia on the second segment. Third and fourth segment each with a posterior marginal fascia that is somewhat less in width than one-fourth of the segments length. In the middles of the light yellow-brown areas left on these segments there are a pair of narrowly separated comma-like spots lying not very far from the anterior margin of the segments; their posterior corners form attenuated, slender, linear vittae that connect with the posterior fascia. Fourth segment with a medial, basal blackish spot and a lateral marginal fascia on the posterior half of the segment and the posterior margin of the segment in the middle, all black. *Legs*: pale yellow, a subapical blackish annulus on the hind femora and a faint similar subbasal annulus on the hind tibiae. Hind meta tarsi blackish brown and their last three joints similar. *Wings*: hyaline; stigma pale yellow.

Holotype: female, Tinga, Rio De Janeiro, Brazil, May 1940. Paratype, one female, same data in the collection of J. Lane.
